

Material Safety Data Sheet (MSDS)

1 Identification of the substance and of the company

- .Product name: Markers
- .MSDS for material: Liquid ink
- .Manufacturer/Supplier: Ningbo Senseng Manufacture & Trade Group Co., Ltd
- .Address: 15#, Jingsi Road, Xiaogang Street, Beilun District, Ningbo, China
- .Tel: +86-574-8615 0161
- .Fax: +86-574-8615 7993
- .E-Mail: shirley.jiang@senseng.cn
- .Further information obtainable from: Ningbo Senseng Manufacture & Trade Group Co., Ltd
- .Emergency Telephone Number: +86-135 0588 1581
- .Contact: Shirley Jiang

2 Hazards identification

- .NFPA ratings (scale 0 - 4)



Health = 1; Fire = 0; Reactivity = 0

- .Classification of the substance or mixture
- .Classification according to GHS : Not classified as dangerous goods.
- .Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.
- .Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):
The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
- .Labelling according to GHS and CLP: Not applicable.
- .Hazard pictograms: Not applicable.
- .Signal word: Not applicable.
- .Hazard statements: This mixture is considered as non dangerous mixture.
- .Precautionary statements: Not applicable.
- .Other hazards: See section 11.
- .Results of PBT and vPvB assessment : Not applicable.
- .Potential Chronic Health Effects:
.CARCINOGENIC EFFECTS: This material is not a carcinogen. Classified NONE by NTP, NONE by OSHA and by IARC.
.MUTAGENIC EFFECTS: Not available.
.TERATOGENIC EFFECTS: Not available.



3 Composition/information on ingredients

.Description: Mixture of substances listed below with additions.

Components Name	CAS No.	Weight Percent (%)
Glycero	56-81-5	20%
Poly(styrene-co-acrylonitrile)	9003-54-7	40%
Distilled water	7732-18-5	36%
Propylene glyco	57-55-6	2%
Pigment Blue 15	147-14-8	1-1.5%
Flavine 10GFF	35869-60-4	0.5-1%
Rhodamine 6G	989-38-8	1-1.5%
Pigment Black 11	12227-89-3	0.5-1%

4 First aid measures

.Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

.Eye: Flush eyes with plenty of water for a few minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

.Skin: Normally does not need first aid after skin contact, When need flush skin with water for a few minutes.

.Ingestion: If victim is conscious and alert, Gargle with water and induce vomiting. Never give anything by mouth to an unconscious person. Get medical aid.

5 Fire-fighting measures

.General Information: As in any fire,wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

.Extinguishing media: Water, CO2, Dry Chemicals, Foam-Fog..

.Flash point: Not available.

.Fire/Explosion Hazards: Negligible fire and explosion hazard.

.Special fire & explosion hazards: Not available.

6 Accidental release measures

.Person-related safety precautions: Wear protective equipment.

.Measures for environmental protection: Do not allow much product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

.Measures for cleaning/collecting

.Small leak: Mix absorb leaked material with (sand, diatomite, sawdust) then Cleaning and placed into a suitable container handling, and scrub the area with towel and water.

.Much leak: Timely cut off the source of leakage, if possible dug pit to make leak liquid pooled , Isolation accident area to prevent the leak products to be contaminated, And then to recycling collection the leak products.

7 Handling and storage

.Handling: Removal of products need to wear protective gloves , handled with care when handling apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths must be worn. Observe all warnings and precautions listed for the product.

.Storage

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Keep container tightly sealed.

Further information about storage conditions: Combustible materials should be stored away from extreme heat and away from reactive substances.

8 Exposure controls/personal protection

.Ventilation and Engineering controls: No special ventilation and engineering controls are required.

.Respiratory Protection: No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard, applicable U.S. State or EU regulations.

.Body Protection: General protective clothing.

.Protective Gloves: Unnecessary, If need choose rubber or plastic gloves with elbow-length gauntlet.

.Eye Protection: Unnecessary, When necessary wear chemical goggles or face shield.

9 Physical and chemical properties

.General Information	
.Form:	Liquid
.Color:	Red, Brownish red, Yellow, Black, Pink, Light blue, Purple, Orange
.Odor:	Odorless
.Change in condition	
.Melting point/Melting range:	Not available
.Decomposition temperature:	Not available
.Flash point:	Not available
.Danger of explosion:	Product does not present an explosion hazard
.Density:	
.Relative density:	1 ± 0.5 (Water=1)
.Vapor density:	Not available
.Evaporation rate	Not available
.Solubility in/Miscibility with	
.Water:	Soluble
.PH-Value:	Not available
.Viscosity:	Not available

10 Stability and reactivity

- .Reactivity and Chemical Stability: Stable under normal temperatures and pressures.*
- .Possibility of hazardous reactions: Hazardous reactions will not occur.*
- .Conditions to avoid: No further relevant information available.*
- .Incompatible Materials: No further relevant information available.*
- .Hazardous Decomposition Products: No further relevant information available.*

11 Toxicological information

- .Toxicity to Animals:*
 - LD50: Not available.*
 - LC50: Not available.*
- .Potential Acute Health Effects on Humans: Unhealthful if much swallowed, And may be cause moderate eye irritation.*
- .Other Toxic Effects on Humans: Not available..*

12 Ecological information

- .Ecotoxicity: No information available.*
- .Persistence and degradability: No further relevant information available.*
- .Bioaccumulative potential: No further relevant information available.*
- .Mobility in soil: No further relevant information available.*
- .Other adverse effects: No further relevant information available.*

13 Disposal considerations

- .Product: Must be disposed of in accordance with applicable Federal, state and local regulations.*
- .Recommendation: Dispose according to relevant local disposal methods.*
- .Uncleaned packaging: Recommendation Disposal must be made according to official regulations.*

14 Transport information

- .UN Proper Shipping Name: Not applicable.*
- .UN Number: Not applicable.*
- .Packing Group: Not applicable.*
- .Marine Pollutant: Not available.*
- .Hazardous Substance Reportable Quantity: Not available.*
- .Special Provisions for Transport: Not applicable.*
- .DOT Classification for Bulk Shipments: Not a DOT controlled material (United States).*
- .TDG Classification: Not controlled under TDG (Canada).*
- .ADR/RID Classification: Not controlled under ADR(Europe)*
- .IMO/IMDG Classification: Not Controlled under IMDG.*
- .ICAO/IATA Classification: Not controlled under IATA.*

15 Regulatory information

- .TSCA inventory: Most components are listed as commercial status active on the TSCA.*
- .SARA 301/302/303: No chemicals in this product are listed as extremely hazards substances in 40 CFR 355, Emergency Planning And Notification(Appendix A to Part 355).*
- .WHMIS: Not controlled under WHMIS.*
- .DSCL: Not controlled under DSCL.*
- .California Prop.65:There are no Proposition 65 chemicals present in this products levels that would require a warning under the California Safe Drinking Water and Toxic Enforcement Act.*
- .REACH Regulation List of Substances of very high concern (SVHC) : None of the ingredients is listed.*
- .Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

16 Other information

The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014:2009.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

• Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).*
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).*
- IMDG: International Maritime Code for Dangerous Goods.*
- IATA: International Air Transport Association.*
- ICAO: International Civil Aviation Organization.*
- TDG: Transportation of Dangerous Goods Program of Canada.*
- DOT: U.S. Department of Transportation.*
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals.*
- CAS: Chemical Abstracts Service (division of the American Chemical Society).*
- ACGIH: American Conference of Governmental Industrial Hygienists.*
- NFPA: National Fluid Power Association.*
- TSCA: Toxic Substances Control Act.*
- DNEL: Derived No-Effect Level (REACH).*
- PNEC: Predicted No-Effect Concentration (REACH).*
- LC50: Lethal concentration, 50 percent.*
- LD50: Lethal dose, 50 percent.*
- PBT: Persistent, Bioaccumulative and Toxic.*
- vPvB: very Persistent and very Bioaccumulative.*

*****The End*****